Computer Hardware and Software Minimum Specifications:

The Contractor shall utilize the specifications below in conjunction with the project special provisions and submit the vendor supplied information required by the special provisions to the Project Engineer.

A) Computer – Minimum Specification:
Processor – Intel® Core i5 Processor (3.20 GHz, 1600 MHz FSB 6MB Cache)
Memory – 8 GB DDR3 1600MHz
Monitor – Dual (2) 24.0 inch LCD color monitor
Graphics – Intel Integrated Graphics
Hard Drive – 500 GB 7200 RPM SATA hard drive (Western Digital, IBM or Seagate) Optical
Drive – CD-RW/DVD-RW
Multi-Card Reader – Must include SD
Multimedia Package – Integrated sound and speakers
Case – Small Form or Mid Tower, capable of vertical or horizontal orientation
Integrated Network Adapter
Keyboard – 104+ Keyboard
Mouse – Optical 2-button mouse with scroll wheel
Operating System – Windows 7 Professional 64-bit SP1
Application Software – MS Office 2010 Professional Edition (or newer)
Additional Software (Latest Releases, including subscription services for the life of the Contract –
- Symantec Endpoint Protection
- CD/DVD burning software (ROXIO or NERO)
- Blue-Beam **Revu eXtreme** (*Must be original purchased Licensed Media CD/DVD or authentic digital down load certificate*).
  - Adobe Acrobat Professional may be specified as an alternative to Blue-beam Revu eXtreme, upon request by administrating District (*Must be original purchased Licensed Media CD/DVD or authentic digital down load certificate*)

Resource or Driver CD/DVD – CD/DVD with all drivers and resource information so the computer can be restored to original prior to shipment back to the contractor
Uninterrupted power supply – APC Back-UPS 500VA

Note A1: All hardware components must be installed before delivery. All software documentation and CD-ROMs/DVD for Microsoft Windows 7 Professional, Microsoft Office 2010 Professional Edition, and other software required software must be provided. Computer Brands are limited to Dell (preferred) and HP (acceptable) brands only. No other brands will be accepted.

B) Laptop Computer – Minimum Specification (laptops to be purchased by and returned to the Contractor. Laptops to be purchased and retained by the Department have additional requirements):

Only Dell or HP brand laptop computers will be accepted
Processor – Intel® Core i5 Processor (3.20 GHz, 1600 MHz FSB, 6M Cache)
Intel V Pro Technology
Memory – 8 GB
Screen – 14.0 inch LED anti-glare
Graphics – Intel Graphics Media Accelerator 3000 or equivalent
Hard Drive – 500 GB 7200 rpm hard drive (Western Digital, IBM or Seagate)
USB ports – Four (4)
Optical Drive – CD-RW/DVD-RW Combo
Multimedia Package – Integrated microphone and speakers
Integrated Network Adapter – Intel® 10/100/1000 twisted pair Ethernet

Wireless Network Adapter – Intel® Centrino a/b/g/n/ac
Card Reader – multi-card reader including SD
Battery – Two (2) 9-cell batteries: 1-primary and 1-spare
Power adapters – One (1) AC wall adapter and One (1) 12 Volt DC Auto adapter
Mouse – Cordless laser 2-button mouse with scroll wheel
Operating System – Windows 7 Professional 64-Bit Service Pack 1
Application Software – MS Office 2010 Professional Edition

Additional Software (Latest Releases, including subscription services for the life of the Contract–

- Symantec Endpoint Protection
- CD/DVD burning software (ROXIO or NERO)
- Blue-Beam **Revu eXtreme** (*Must be original purchased Licensed Media CD/DVD or authentic digital down load certificate*)
    - Adobe Acrobat Professional may be specified as an alternative to Blue-beam Revu, upon request by administrating District (*Must be original purchased Licensed Media CD/DVD or authentic digital down load certificate*)

Resource or Driver CD/DVD – CD/DVD with all drivers and resource information so that computer can be restored to original prior to shipment back to the contractor
Carrying Case – Carrying case sized to carry laptop and accessories.

Note B1: All hardware components must be installed before delivery. All software documentation and CD-ROMs/DVD for Microsoft Windows 7 Professional, Microsoft Office 2010 Professional Edition, and other software required software must be provided. Computer Brands are limited to Dell (preferred) and HP (acceptable) brands only. No other brands will be accepted.

Laser Printer – Minimum Specification:
Print speed – 20 ppm
Resolution – 1,200 x 1,200 dpi
Paper size – Up to 216 mm x 355 mm (8.5 in x 14 in)
RAM – 16 MB
Print Drivers – Must support HP PCL6 and HP PCL5e
Printer cable – 1.8 m (6 ft)

Note C1: Laser printer brands are limited to Hewlett-Packard and Savin brands only. The ConnDOT Project Engineer will provide the Contractor with a copy of the current PC specifications and approved printer list as soon as possible after the contract is awarded.

Note C2: For 'Small', 'Medium' and 'Large' Field Officers, it is acceptable to substitute a multi-function all-in-one printer/copier/scanner/fax machine listed on the approved printer list in place of the required laser printer and fax machine.

Note C3: For Type 'Extra-Large' Field Offices it is acceptable to substitute (1) a high-speed multi-function all-in-one printer/copier/scanner/fax machines listed on the approved printer list in place of one required laser printer and fax machine, and (2) a multi-function all-in-one printer/copier/scanner/fax machine listed on the approved printer list in place of the second required laser printer and fax machine. Only one of these devices is required to be set-up to function as the one required fax machine.

C) Scanner – Minimum Specification:

Refer to C) Laser Printer - Minimum Specification Note C2 and C3.

D) Digital Camera – Minimum Specification:
    Optical – 5 mega pixel, with 3x optical zoom
    Memory – 16 GB
    Features – Date/Time stamp feature
    Connectivity – USB cable or memory card reader
    Software – Must be compatible with Windows 7 Professional 64-bit
    Power – Rechargeable battery and charger

E) Communications:

The Contractor shall provide rugged cell phones with unlimited nation-wide calling plan that operates on the Verizon, ATT or Sprint networks. The phones should be capable of sending and receiving text messaging and shall also include voice mail. Additional features beyond those described shall be at no additional cost to the Department. Accessories for each cell phone shall include holster, AC wall charger, DC auto charger, and extended life battery.

The Contractor is responsible for service and repairs to all computer and communications hardware. All repairs must be performed with-in 48 hours. If the repairs require more than a 48 hours then a replacement must be provided. All supplies, paper and maintenance for the computers, laptops, printers, copiers, and fax machines shall be provided by the Contractor.

Current Approved Printers

The following list of printers includes the only printers that will be **approved** for use in the Field Offices, the Terminal Servers with SiteManager system. If you currently have a construction project that is scheduled to start please ensure that the contractor only supplies one of these printers. No other printers will be approved or supported for new construction projects.

NOTE: Network interface requirements for all printing/scanning/copying devices:
   a. All printers/multifunction devices **shall be Network ready** (MIN 10/100 RJ45)
   b. Network/OS – Windows XP/Windows 7/Server 2008R2
   c. Network Protocols - TCP/IP (IPv4, IPv6)
   d. All printers/multifunction devices shall have a built in **display window**.
   e. Wireless/ePrinting are **not** allowed **nor** supported.

HP LASER JET ACCEPTABLE MODELS;

- HP LaserJet Pro series
- HP LaserJet Professional series
- HP LaserJet Enterprise series

   With the *exception* of the following models:
   o *No HP Laser Pro 1…. Series (Not compatible w/ our network)*
   o *No HP Laser Jet 1…. Series (Not compatible w/ our network)*
   o *No HP Laser Jet P2035 (Not compatible w/ our network)*
   o *No **HP Laser Jet P2015** (**Not compatible w/ our network**)*
   o *No HP Laser Jet Color 2550N(Not compatible w/ our network)*
   o *No HP Laser Jet P1…. Series (Not compatible w/ our network)*
   o *No HP laser Jet CM…. Series (Not compatible w/ our network)*
   o *No HP laser Jet CP10… Series (Not compatible w/ our network)*
   o *No HP laser Jet MFP Series (Not compatible w/ our network)*
   o *No HP Multifunction Series (Not compatible w/ our network)*

   SAVIN MULTIFUNCTION printer/copy/fax/scanner models;

   NB: The only supported scanning method is via a Savin Multifunction

   o SAVIN B&W Multifunction 9…. series
   o SAVIN B&W Multifunction MP…. series
   o SAVIN Color Multifunction C… series
   o SAVIN Color Multifunction MP…. series